

# Operating/Service Instructions

## ROTARY MOWER

MODEL NOS.  
113-060 113-070

### IMPORTANT

### SAFE OPERATION PRACTICES FOR WALK-BEHIND MOWERS

#### TRAINING

1. Read the Operating and Service Instruction Manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
2. Never allow children to operate a power mower.
3. Keep the area of operation clear of all persons, particularly small children, and pets.
5. If the equipment should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
6. Stop the engine (motor) whenever you leave the equipment, before cleaning the mower housing, and when making any repairs or inspections.

#### PREPARATION

1. Thoroughly inspect the area where the equipment is to be used and remove all stones, sticks, wire, bones and other foreign objects.
2. Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
3. Check the fuel before starting the engine. Do not fill the gasoline tank indoors, when the engine is running, or while the engine is still hot. Wipe off any spilled gasoline before starting the engine.
4. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine (motor).
5. Never attempt to make a wheel adjustment while the engine (motor) is running.
6. Mow only in daylight or in good artificial light.
7. Never operate the equipment in wet grass. Always be sure of your footing; keep a firm hold on the handle and walk, never run.
7. When cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.
8. Do not run the engine indoors.
9. Shut the engine (motor) off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging chute.
10. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
11. Always disconnect electric mowers (line operated) before cleaning, repairing or adjusting.
12. Never operate mower without proper guards, plates or other safety protective devices in place.
13. Keep washout ports and other mower-housing service openings closed when mowing.

#### OPERATION

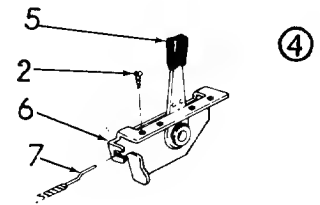
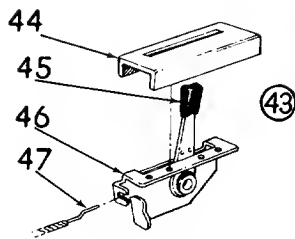
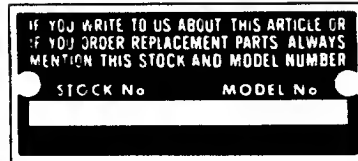
1. Do not change the engine governor settings or overspeed the engine.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
3. Stop the blade(s) when crossing gravel drive, walks or roads.
4. After striking a foreign object, stop the engine (motor), remove the wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

#### MAINTENANCE AND STORAGE

1. Check the blade and the engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
5. Check the grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.

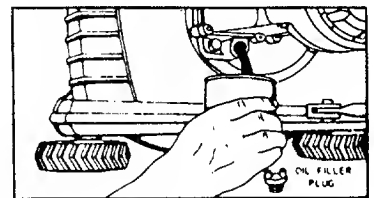
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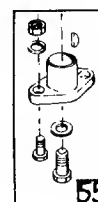
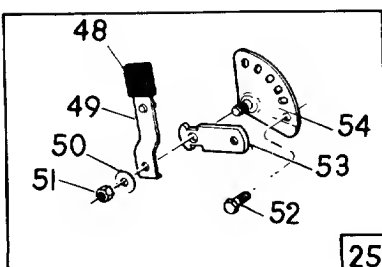
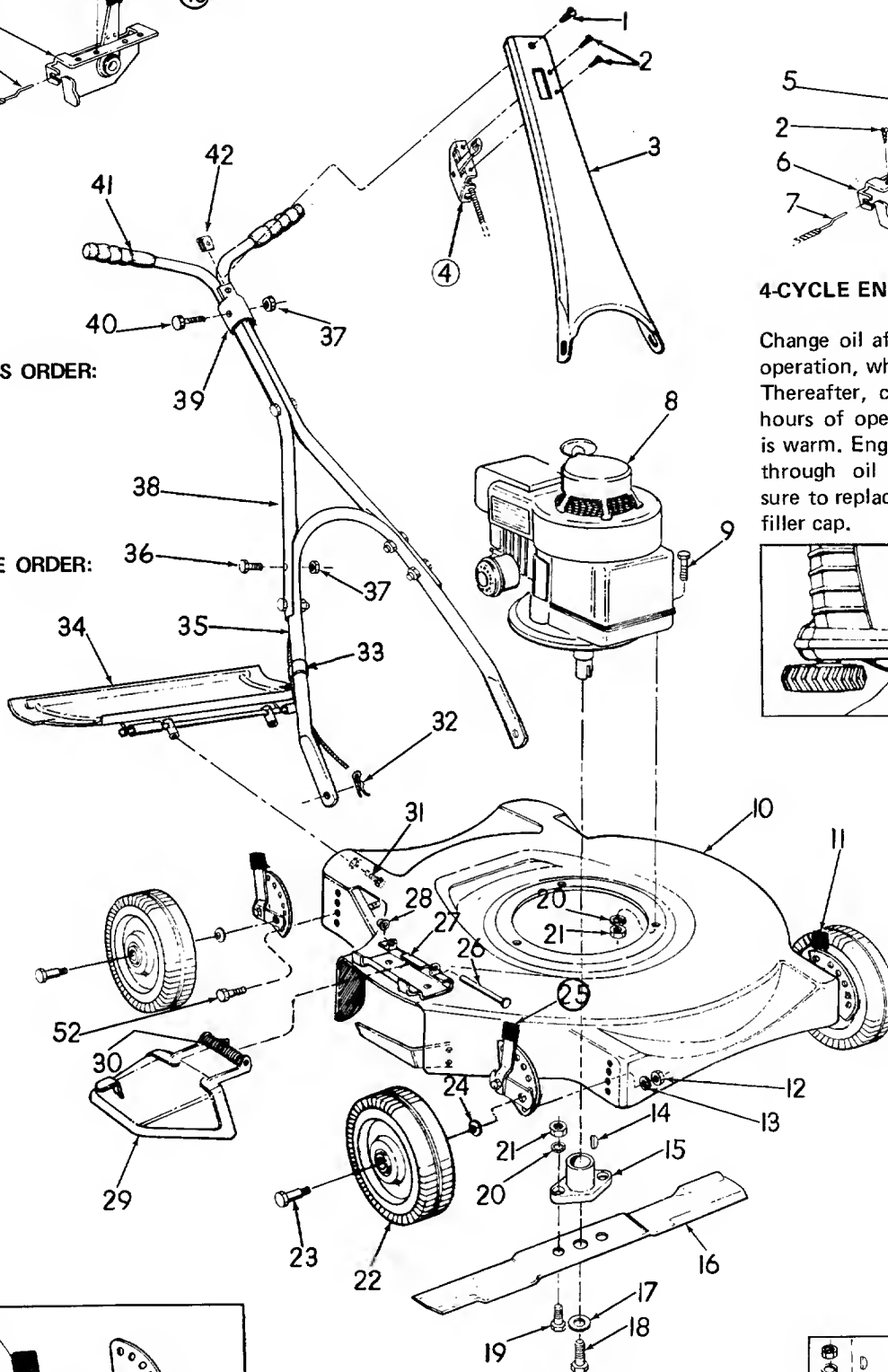
#### 4-CYCLE ENGINE

Change oil after first 5 hours of operation, while engine is warm. Thereafter, change oil every 25 hours of operation while engine is warm. Engine may be drained through oil filler opening. Be sure to replace drain plug and oil filler cap.



FOR UPPER HANDLES ORDER:  
CHROME - 9354  
WHITE - 749-111

FOR LOWER HANDLE ORDER:  
CHROME - 9357  
WHITE - 749-114



NOTE: EASY HEIGHT ADJUSTERS MAY OR MAY NOT BE USED ON YOUR UNIT. THEY ARE STANDARD ONLY ON MODEL NO. 113-070.

**PARTS LIST FOR MOWER MODELS 113-060 AND 113-070**

REF. NO.	PART NO. 113-060	COLOR CODE	PART NO. 113-070	COLOR CODE	DESCRIPTION	NEW PART
1	None		710-192		Truss Hd. Mach. Scr. No. 10-24 x .38" lg.	
2	None		710-407		Slotted Hex Hd. Self Extr. Scr. 8-32 x .50" lg. *	
3	None		11604-463		Handle Panel	
4	11609		11597		Throttle Control Assembly - Complete	
5	None		7470		Throttle Control - Knob	
6	None		11598		Throttle Control Assembly	
7	None		732-141		Conduit and Wire	
8	----		----		Engine	
9	710-158		710-158		Hex Hd. Cap Scr. 5/16-24 x 1-1/4" lg. *	
10	11904-463		11904-463		Deck Assembly - Complete	N
11	None		10950		Height Adjuster Ass'y. - Comp. L.H.	
12	712-798		712-798		Hex Nut 3/8-16 Thd. *	
13	736-169		736-169		Spring Lockwasher 3/8" Scr. *	
14	714-365		714-365		Hi Pro Key No. 505	
15	10769		10769		Blade Adapter Kit	
16	742-123		742-123		Blade 20 inch	
17	736-217		736-217		Spring Lockwasher 3/8" Scr. Heavy Duty	
18	710-459		710-459		Hex Hd. Cap Scr. 3/8-24 x 1-1/2" lg. Heat Treated	
19	710-117		710-117		Hex Hd. Cap Scr. 5/16-24 x 1" lg. Heat Treated	
20	736-119		736-119		Spring Lockwasher 5/16" Scr. *	
21	712-123		712-123		Hex Nut 5/16-24 Thd. *	
22	734-480		734-480		Wheel Ass'y. - Complete	N
23	738-213		738-102		Axle Bolt	
24	736-105		736-105		Belleville Washer	
25	None		10951		Height Adjuster Ass'y. - Complete R.H.	
26	711-555		711-555		Pivot Pin	
27	11130-463		11130-463		Adapter Plate	
28	726-106		726-106		Push-on Flange Palnut	
29	11148-463		11148-463		Chute Deflector	
30	732-253		732-253		Torsion Spring	
31	710-513		710-513		Hex Hd. Cap. Scr. 1/4-28 x .62" lg. Nylock	
32	714-104		714-104		Hair Pin Cotter	
33	746-128		746-128		Cable Clip	
34	11190-463		11190-463		Rear Protective Shield Ass'y.	N
35	9357		9357		Lower Handle	
36	710-106		710-106		Hex Hd. Cap Scr. 1/4-20 x 1-1/4" lg. *	
37	712-107		712-107		Hex Center Lock Nut 1/4-20 Thd.	
38	9354		9354		Upper Handle	
39	None		7861		Control Clamp	
40	710-606		710-606		Hex Hd. Cap Scr. 1/4-20 x 1-1/2" lg. *	
41	720-157		720-157		Grip	
42	None		712-526		Speed Nut	
43	11609		None		Throttle Control Ass'y. - Comp.	
44	731-180		None		Plastic Label	
45	7470		None		Throttle Control - Knob	
46	11602		None		Throttle Control Assembly	
47	732-141		None		Conduit and wire	
48	None		7520		Height Adjuster - Knob	
49	None		10949		Spring Lever Ass'y. w/Knob	
50	None		736-219		Belleville Washer .400 I.D. x 1.13 O.D.	
51	None		712-116		Hex Inserted Locknut 3/8-24 Thd.	
52	None		710-209		Hex Sems Scr. 3/8-16 x .62" lg.	
53	None		10937		Pivot Bar	
54	None		10934		Index Plate Ass'y. - R.H.	
	None		10933		Index Plate Ass'y. - L.H.	
55	10769		10769		Blade Adapter Kit	
	11681-463		11681-463		Chute Deflector Assembly Complete (includes Ref. Nos. 26, 27, 28, 29 and 30)	N

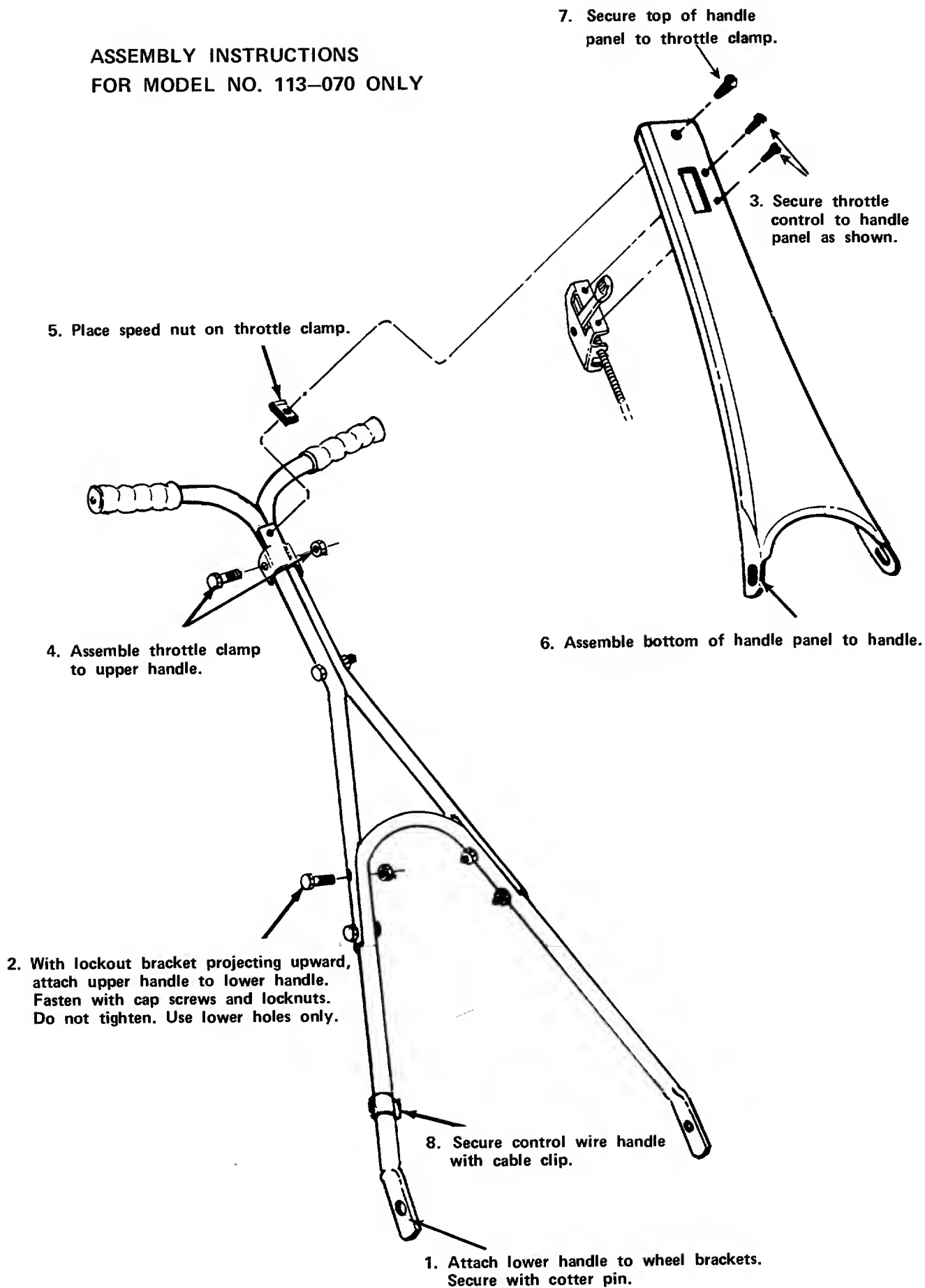
\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(463 - Top Flite Red) - When ordering parts if color or finish is important, use the appropriate color code shown at left. (e.g. - Top Flite Red - 11904(463) ).

The engine is not under warranty th the mower manufacturer. If repirs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines - Gasoline."



**ASSEMBLY INSTRUCTIONS  
FOR MODEL NO. 113-070 ONLY**



## **ASSEMBLY (FOR MODEL NO. 113-060)**

Your new mower is shipped preassembled with the exception of the handle.

1. Remove lawn mower and all parts from the carton. Make certain that all loose parts and literature have been removed before the carton is discarded.
2. Extend throttle control assembly which is attached to engine at the rear of the mower and place on the floor. **CAUTION:** Do not bend or kink control wires.
3. Assemble the upper and lower handle parts with cap screws and locknuts provided in parts bag. Use the longer (yellow) screw to attach throttle control.
4. Holes at the bottom of the lower handle are to be fitted over studs located in front of each rear wheel mounting position.
5. Secure throttle control wire to lower right handle with cable clips.
6. Check blade bolts for proper tightness.

## **OPERATION**

**NOTE:** For shipping purposes your mower is set with the wheels in a low cutting height position. For best results raise the cutting position until it is determined which height is best for your lawn. See adjustments.

1. Service engine with gas and oil. See Engine Manual packed with lawn mower for complete instructions for the care and maintenance of engine. **Read Directions Carefully.**
2. When ready to start engine, place throttle control lever, on handle, in "START" position and start engine in accordance with instructions in Engine Manual. After engine starts, move throttle control lever, on handle, to desired engine speed. The engine is stopped by placing control lever on handle in the "STOP" position.
3. Be sure that lawn is clear of stones, sticks, wire or other objects which could damage lawn mower or engine. For best results and to insure more even grass distribution, do not mow when lawn is excessively wet.

## **ADJUSTMENTS**

**CAUTION:** Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

## **STANDARD CUTTING HEIGHT**

Adjustment may be made by removing and moving wheel studs to desired position. Cutting heights will be raised as wheel studs are moved to a lower hole and lowered as wheel studs are moved to a higher hole in the deck. All wheel studs must be mounted in a relative position to the deck.

**EASY CUTTING HEIGHT** — An adjusting plate and thumb lever at each wheel position provides cutting height adjustment. Each adjusting plate has five holes. Height of cut will be changed when the thumb lever is moved from one hole to another. Simply depress thumb lever towards wheel and move wheel and lever assembly to desired position. All wheels must be positioned in relative height of cut positions.

## **THROTTLE**

If adjustment becomes necessary, the throttle control wire assembly can be reset as follows:

1. Loosen, but do not remove, screw securing throttle control wire assembly at engine.
2. Move throttle control lever on handle to "FAST" position.
3. Move lever, to which control wire is fastened at engine, to full open position and retighten screw to secure throttle control wire assembly.

## **LUBRICATION**

**IMPORTANT:** Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

**PROTECTIVE SHIELD** — The pivot points on the protective shield should be lubricated periodically with light oil to prevent any rust or binding.

**CHUTE DEFLECTOR** — The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding. Deflector must work freely.

**WHEELS** — Wheel bearings require no lubrication.

**THROTTLE** — Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil (S.A.E. No. 10 or 20) for ease of operation.

**ENGINE** — Follow engine manual for lubrication instructions.

## **MAINTENANCE**

**CUTTING BLADE** — The blade may easily be removed for grinding or replacement as follows:

1. Remove bolt and lock washer holding blade and blade adapter to engine crankshaft.
2. Remove blade and blade adapter from engine crankshaft.
3. Remove two bolts, lock washers and nuts holding blade to blade adapter (if necessary).

When sharpening blade, follow the original angle of grind as a guide. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds and may cause damage to the mower.

Upon reassembly, make certain all parts are assembled properly and tightened securely.

**DECK** — The underside of mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower forward or on its side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.

**CAUTION:** Do not direct the stream of water at a hot engine as damage to the engine may result.

**STORAGE** — The following steps should be taken to prepare lawn mower for storage.

1. Clean and lubricate mower thoroughly as described in the preceding instructions.
2. Refer to engine manual for correct engine storage instructions.
3. Coat mower's cutting blade with chassis grease to prevent rusting.
4. Place blocks under deck to raise tires clear of floor.
5. Store mower in a dry, clean area.

## **USING YOUR ROTARY MOWER**

For the best results do not cut wet grass because it tends to stick to the underside of the mower, thus preventing proper discharge of grass clippings. If wet grass must be cut, reduce walking speed to help distribute the clippings more effectively.

New grass should be treated as wet grass, otherwise a normal walking speed is about the right pace for efficient mowing.

The best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion then recut at right angles to first direction.

Lawn should be cut in the fall as long as there is growth.

GRASS CATCHER Model No. 193-003 is available as optional equipment for the mowers shown in this manual.

**WARNING:**

1. The mower should not be operated without the entire grass catcher or chute deflector in place.
2. The mower should not be operated without the protective shield on the rear of the deck in place.

**NOTE:**

Under normal usage bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-119.

**★ IMPORTANT**

After striking a foreign object, stop the engine (motor), remove wire from spark plug. Thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

**WARRANTY**

For one year from date of purchase, MTD Products Inc will replace for the original purchaser, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. All transportation charges on parts submitted for replacement under this warranty must be paid by the purchaser. This warranty does not include replacement of parts which become inoperative through misuse, excessive use, accident, neglect, improper maintenance or alterations by unauthorized persons. This warranty does not include the engine, motor, battery, battery charger or any component parts thereof. For service on these units, refer to the applicable manufacturer's warranty.

The above warranty will apply only to the original owner and will be effective only if the warranty card has been properly processed. It will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. UNDER NO CIRCUMSTANCES WILL THE RETURN OF A COMPLETE UNIT BE ACCEPTED BY THE FACTORY UNLESS PRIOR WRITTEN PERMISSION HAS BEEN EXTENDED.

# PARTS INFORMATION

**DEFECTIVE OR MISSING PARTS** must be reported to the factory immediately. Such claims must include your model number and date of purchase.

## MOWER, TILLER, SNOW THROWER, TRACTOR, TRAIL BIKE AND MUD BUG PARTS

Mower, tiller, snow thrower, tractor, trail bike and mud bug parts are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts numbers, de-

scription of parts and the quantity of each part required.

## BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing *Engines — Gasoline*, Briggs & Stratton or Tecumseh Lauson — Power Products.

**A 1 Engine & Mower Co.**  
327 East 9th Street  
Salt Lake City, Utah 84102

**American Electric Ignition Co.**  
124 N. W. 8th Street  
Oklahoma City, Oklahoma 73102

**Auto Electric & Carburetor Co.**  
2625 4th Avenue, S.  
P. O. Box 1948  
Birmingham, Alabama 35233

**Automotive Equipment Service Co.**  
3117 Holmes Street  
Kansas City, Missouri 64109

**Bailey's Rebuild Inc.**  
1325 E. Madison Street  
Seattle, Washington 98102

**Brown Equipment Distributor Inc.**  
110 Beech Street  
Corydon, Indiana 47112

**Bullard Supply**  
2409 Commerce Street  
Houston, Texas 77003

**Catto & Putty, Inc.**  
P. O. Box 2408  
510 Soledad Street  
San Antonio, Texas 78205

**Center Supply Company**  
6867 New Hampshire Avenue  
Takoma Park, Maryland 20012

**Charles B. Wright Co.**  
309 4th Avenue, South  
Nashville, Tennessee 37201

**W. B. Clements**  
400 Salem Avenue  
Roanoke, Virginia 24016

**Morton B. Collins Co.**  
300 Birnie Avenue  
Springfield, Massachusetts 01107

**Dixie Sales Company**  
P. O. Box 1408  
327 Battleground Avenue  
Greensboro, North Carolina 27402

**East Point Cycle & Key Shop**  
1617 Whiteway  
East Point, Georgia 30044

**Gamble Distributors**  
West End Avenue  
Carthage, New York 13619

**Garden Equipment Co., Inc.**  
6600 Cherry Avenue  
Long Beach, California 90805

**Henzler, Inc.**  
2015 Lemay Ferry Road  
St. Louis, Missouri 63125

**Frank E. Ives & Son**  
1101 Lincoln Avenue  
Prospect Park, Pennsylvania 19076

**J. W. Jewett Co.**  
981 Folsom Street  
San Francisco, California 94107

**Kenton Supply**  
8216 North Denver Avenue  
Portland, Oregon 97217

**Kimber's Inc.**  
115 W. Geddes St.  
Syracuse, New York 13204

**The Lawnmower Shop**  
1340 El Camino Real  
San Carlos, California 94070

**Marr Brothers**  
423 E. Jefferson  
Dallas, Texas 75203

**Mathews Auto Electric Co.**  
420 East 2nd Street  
Tulsa Oklahoma 74120

**McClure Lawn & Garden Supply**  
1114 Lexington Avenue  
Mansfield, Ohio 44907

**Memphis Cycle & Supply Co.**  
421 Monroe Avenue  
Memphis Tennessee 38103

**Moz-All of Florida, Inc.**  
365 Greco Avenue  
Coral Gables, Florida 33146

**National Central, Div. of**  
Joe Sterling, Inc.  
Drawer "D" 687 Seville Rd.  
Wadsworth, Ohio 44281

**Power Equipment Distributor**  
36463 So. Gratiot Avenue  
Mt. Clemens, Michigan 48043

**Parts & Sales Inc.**  
2101 Industrial Pkwy.  
Elkhart, Indiana 46514

**Parts & Sales Inc.**  
335 West St. Charles Road  
Villa Park, Illinois 60181

**Power Lawn & Garden Equip. Co.**  
2551-2571 J. F. Kennedy Road  
Dubuque, Iowa 52001

**Raub Supply Company**  
James & Mulberry Sts.  
Lancaster, Pennsylvania 17604

**Radco Distributors**  
2403 Market Street  
P. O. Box 3216  
Jacksonville, Florida 32206

**Richmond Battery & Ignition**  
P. O. Box 25369 — 957 Myers St.  
Richmond, Virginia 23260

**Smith Hardware Company**  
515 N. George Street  
Goldsboro, North Carolina 27530

**South Denver Lawn Equip. Co.**  
527 West Evans  
Denver, Colorado 80223

**Suhren Engine**  
8330 Earhart Blvd.  
New Orleans, Louisiana 70118

**Sutton's Lawn Mower Shop**  
Route 4, Box 343  
North Little Rock, Arkansas 72117

**Warner Equipment**  
7520 Lyndale Avenue, So.  
Minneapolis, Minnesota 55423

## WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in material and workmanship, defects which are not detected at the time of manufacture.

Our aim is to build into our product quality and reliability. Considerable emphasis is placed on quality control in order to assure our customer of satisfactory product performance. To achieve this goal, it is necessary to gain the cooperation of all concerned, MTD our sales force and our customers.

MTD's responsibility is to build a quality product and to back up that product. MTD must build this quality product at a competitive price. This cannot be achieved without production in quantity. Quantity production is mass production. In mass production it is always possible for undetected defects to be present when the product reaches the customer. Our warranty is extended to assure the customer that any such defects will be corrected.

Use and maintenance are the responsibility of the customer. MTD cannot assume responsibility for conditions over which it has no control. MTD's responsibility does not cover misuse, excessive use, accident neglect, improper maintenance or alterations by unauthorized persons. Satisfactory product performance can only result when a manufacturer provides and backs up a quality product and the customer follows through with proper use and proper maintenance of that product. When both the manufacturer and the customer recognizes and assumes his responsibility, satisfactory product performance and customer satisfaction are assured.